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PENMETAL MOVABLE INTERIOR PARTITIONS*

METAL MARK
Penmetal
1869
OF QUALITY

A.I.A. File No. 35-H-6

PENN METAL COMPANY, INC., BOSTON 9, MASSACHUSETTS

*Patents pending

PENMETAL MOVABLE INTERIOR

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PARTITIONS combine rich beauty with structural stability and efficient sound control. Although designed for permanent use, they can be readily dismantled and re-erected, in a new location, to suit changed floor-plan requirements. Low initial cost, reduced maintenance and easy movability, with complete salvage of all parts, result in long-term economies.

These interiors are designed around a single modular framing system to which can be attached a wide variety of panels, providing finishes for practically any decor. Only a few standard parts are required to create any of the handsome, yet utilitarian, partitions illustrated in this catalog.

They permit a free hand in planning distinctive interiors for executive, general and factory offices; for commercial and public buildings; for stores, theaters, hotels, hospitals, schools, banks. In fact, they are adaptable to an endless variety of new, modern interiors—in either new construction or in modernization.

Penmetal movable partitions are a product of Penn Metal Company, Inc., for ninety years a leader in the manufacture of Metal Lath, Steel Framing and Expanded Metals. All framing members, steel panels and partition accessories are produced in a new, modern plant where automatically controlled manufacturing procedures insure the uniformity and precision so necessary in a high-quality product.

Service is nation-wide. Carefully selected distributors, located in principal cities, provide complete engineering and erection service. Ample warehouse stocks enable them to make installation without delay.

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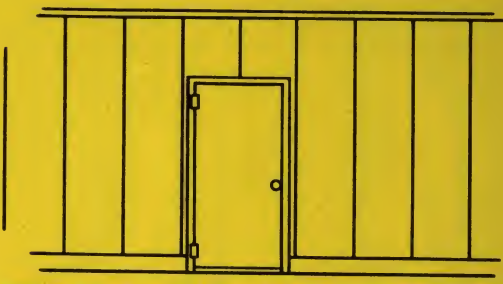
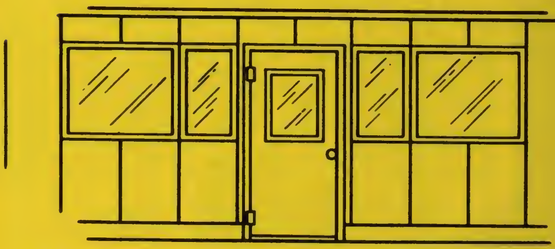
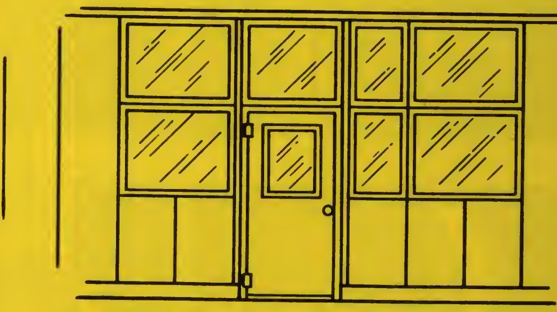
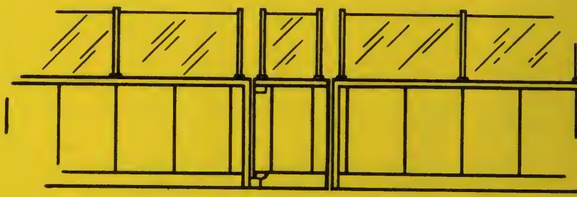
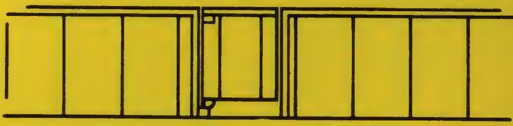
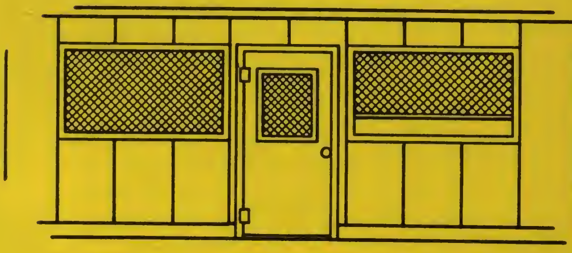

Standard partition with steel, hardwood, plywood or wallboard panels.


Cornice-high combination panel-and-glass partition.


Ceiling-high combination two-tier glass partition.


Glazed railing with glazed gate.


Standard railing with gate.


Industrial partition with expanded metal.

DESIGN SIMPLICITY

Penmetal® movable interiors have a single framing system for the attachment of various types of paneling. The paneled surfaces on each side of the partition are flush, from floor to ceiling, with only hairline joints. There are no visible posts to detract from the smooth flowing lines.

As all units are standard, they are interchangeable. Hence individual panels may be quickly and easily removed without disturbing other panels. Because panel widths correspond to door sections, doors may be placed wherever desired in the room plan.

The dead-air space between the panels acts as an efficient thermal barrier. If required, this space can be filled with insulating wool to increase the insulation value of the partition. The hollow center can also be used for the concealed passage of wiring and piping.

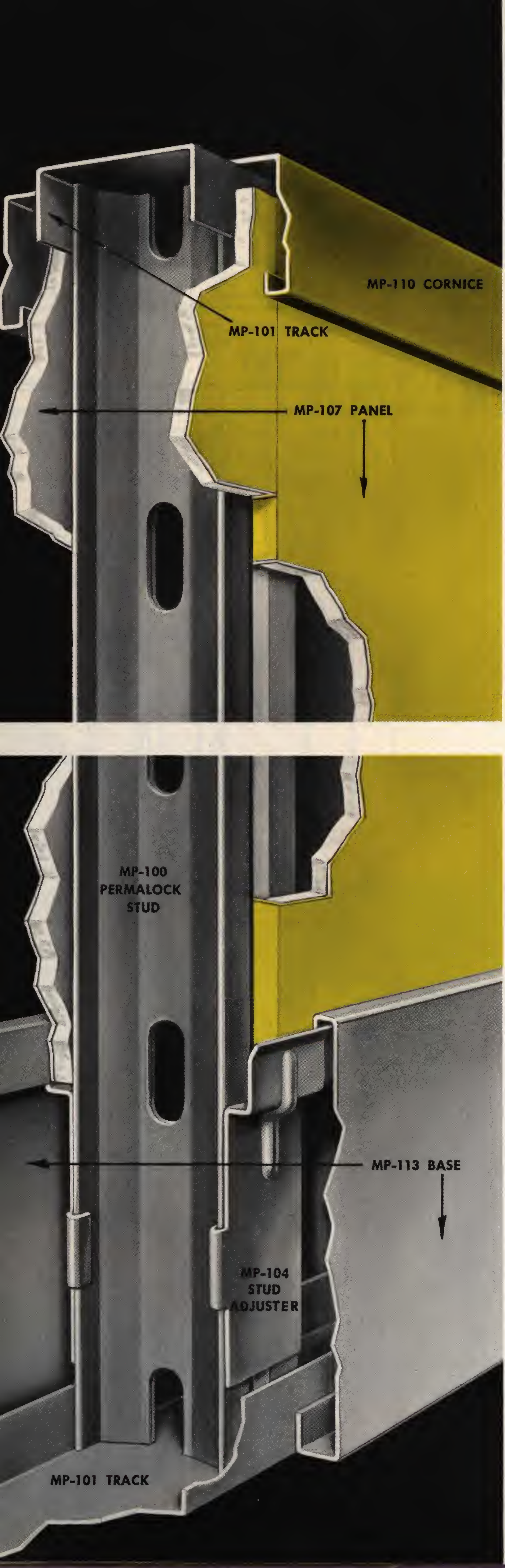
FRAMEWORK

Heart of the framing system is the Permalock stud, which has been job-proved over a period of years. These 2½" steel members are formed so that panels can be readily and securely attached to them. Stud faces are wide to provide maximum strength and bearing surface for panels. Permalock studs have passed impact tests required by the *Bureau of Standards and Appeals* of New York City.

Each stud fits into a stud adjuster, which acts as a leveling bracket to assure "one line" joints regardless of floor variations. These stud adjusters also support the panels and provide clips for securing the base. Track sections, for both floor and ceiling, are sized to fit over the flanges of the studs. Bridging members are accurately made to assure correct stud spacing, and reinforce the partition structure.

Other parts of the system, such as cornices, inside and outside corner panels, and vertical end panels, are all designed for fast, simple assembly.

All parts are electro-galvanized or painted to prevent corrosion. Permalock studs are galvanized steel. Panels and fittings are Parkerized and coated with enamel, baked on.



Cut-away view of top and bottom sections of steel-paneled partition.

STEEL PANELING

Penmetal Steel Panels consist of 20-gage, surface-stretcher-leveled, steel sheet with ¼″ sound-deadening insulation board bonded to the panel steel. Vertical edges are designed to snap into the Permalock studs. Bottom edges are supported by the stud adjusters.

With panels attached to both sides of the studs, the thickness of the finished partition is only 3″. As this is less than the thickness of most movable partitions, important savings in floor space result when Penmetal interiors are used.

These attractive panels are available in a wide range of smart and distinctive decorator colors. A single color or a combination of compatible colors can be selected to achieve the desired result.

The baked-enamel finishes are applied at the factory over a rust-resistant base. These beautiful surfaces will not crack, chip or craze with time, and they will never need repainting. The only maintenance required is an occasional washing with a mild solution of soap and water.

WOOD PANELING

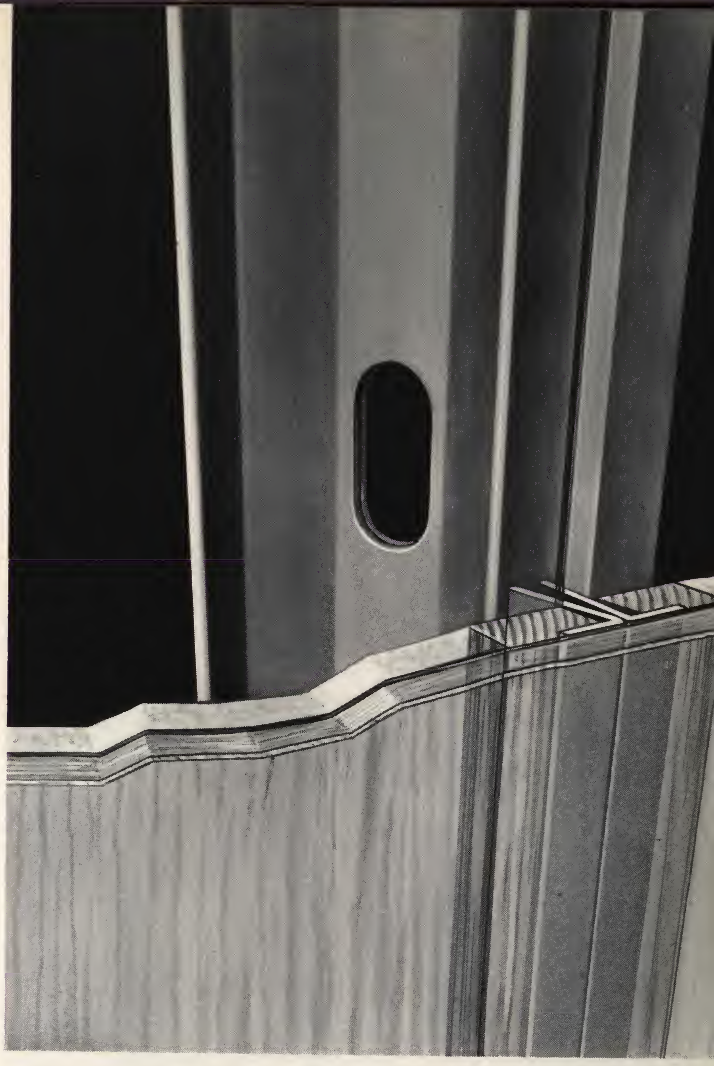
As many executives prefer a wood-paneled office, the Penmetal system provides for this. The interior can be paneled in rich attractive hardwoods; the exterior can be finished in steel to blend with other, adjacent partitions.

Plywood and hardwood panels in ¼″ and ⅛″ thicknesses respectively may be used. Panels should be applied as 24″ widths. To the back of the paneling, ¼″ sound-deadening insulation may be attached so that the panels present a butt-joint appearance within the room. This is accomplished by attaching, by glue or nails, angle panel attachment MP-144G. To the back of this, insulation board may be attached. The steel flanges of the angle snap into the Permalock studs, holding the panel securely in place.

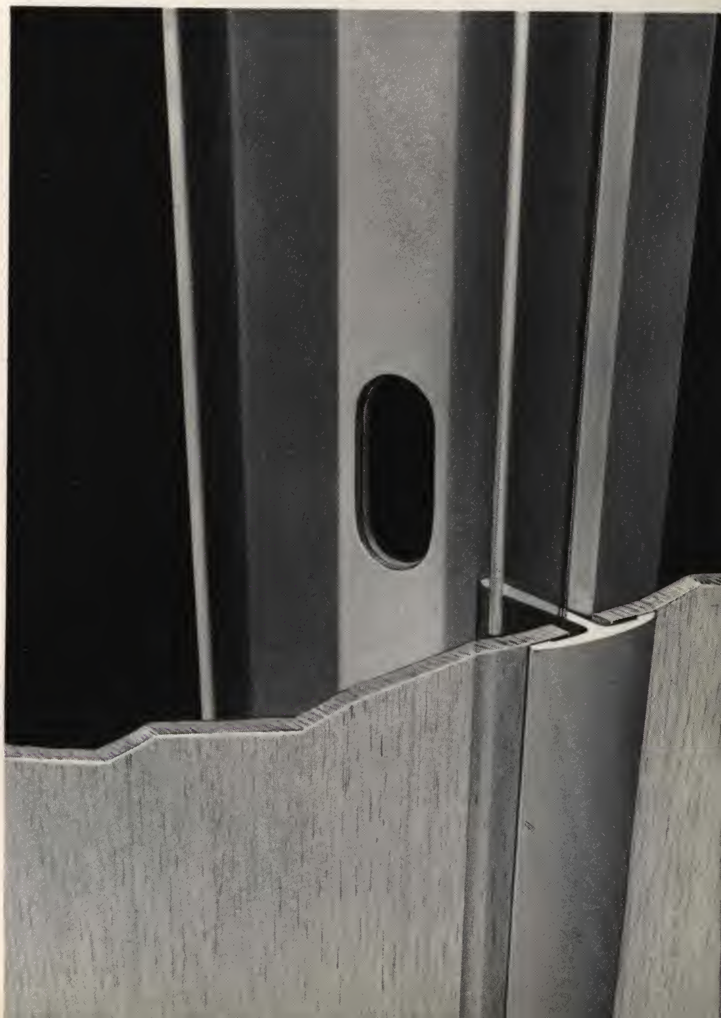
An alternative design uses standard ¼″ or ⅛″ panels, 24″ in width, without the insulation board and angle attachments. Attachment is by means of aluminum battens that snap into the stud and cover the joint between adjacent panels. This method of attachment is similar to that used for wallboard partitions.

WALLBOARD PANELS

Wallboard panels are attached to the studs by means of Kwik-Klip* batten strips. The batten strip is used where two panels butt against each other over the flange of the stud. The batten strip slips into the attachment groove of the stud, and, by friction,



UPPER ILLUSTRATION: Plywood panels, with insulation board, fastened to stud by angle panel attachment MP-144G.



LOWER ILLUSTRATION: ⅛″ hardwood panel attached to the stud by aluminum batten strip MP-145.

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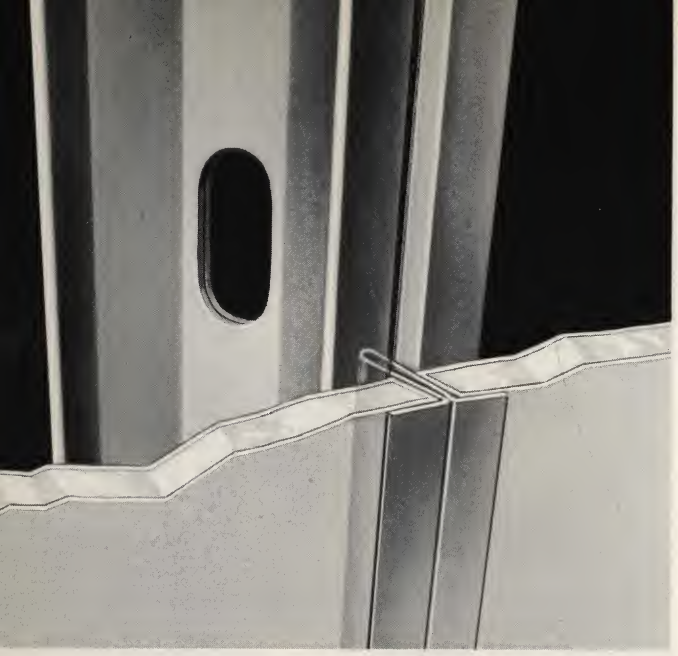
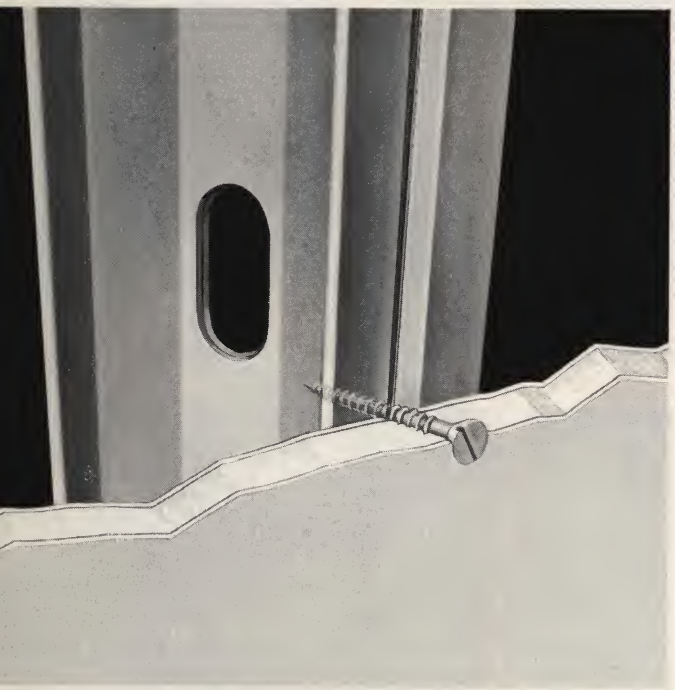
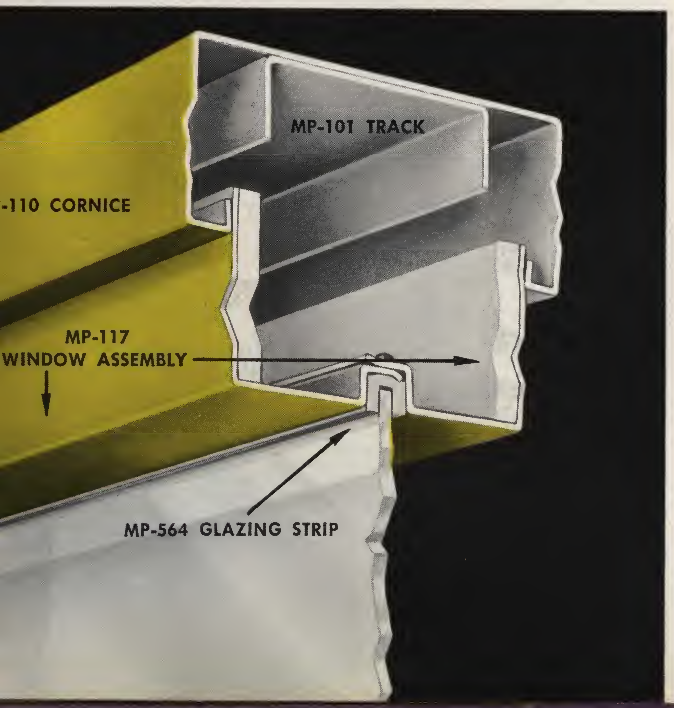
*Trade mark registered; patent applied for..







holds the panel securely in position. The lower edge of the wallboard is supported by the stud adjusters, and the top edge is held in place by the cornice.

When standard wallboard sheets, in 4′ widths, are specified, batten strips are used only at alternate studs. Attachment to the intervening studs, at the centers of the sheets, is by screw. The screws are countersunk below the panel surface, and the indentations are spackled to provide a smooth finish with the face of the wallboard. When 2′ wallboard panels are employed, batten strips are used at each stud.

Attachment of metal base is the same as for steel-panel partitions. When rubber or plastic base is called for, stud adjusters are not used. Instead, the wallboard panels rest on the floor, and the base is glued to the face of the panel.

PARTITIONS WITH EXPANDED METAL

For industrial plant stockrooms, tool rooms, etc., where free circulation of air and protection of room contents are both required, Penmetal expanded metal can be used in place of glass windows in the movable partitions. The expanded metal can be welded to the window frame or held in place with a special Penmetal vinyl extrusion. A variety of mesh sizes is available.

CONCEALED UTILITIES

Because the partitions are hollow, and the studs are furnished with regularly spaced, punched openings, the space between the panels can be used for the passage of wiring and piping. This permits the placement of outlets and switches at any convenient position, either horizontally or vertically.

PARTITION HEIGHTS

Given below are heights of the different types of partitions available.

Type of Partition	Partition Height
Standard Railing	44⅞″
Glazed Railing	44⅞″ plus 24″ glass
Cornice High (Solid Steel or With Windows)	7′0″, 8′1″ 9′1½″, 10′2⅝″
Ceiling High	As required*

** Maximum steel-panel height is 10′; for heights above 10′, filler panels may be used above the cornice. Maximum height for wallboard partitions is 12′.*

UPPER ILLUSTRATION: Two wallboard panels fastened to a stud with Kwik-Klip batten strip MP-120G (patent pending).

CENTER ILLUSTRATION: Centers of 4′–wide wallboard panels are screwed to stud. Screw sets below surface and indentation is spackled with wallboard cement.

LOWER ILLUSTRATION: Cut-away view of top section of 7′ steel-and-glass partition.

PARTITION THICKNESSES

The following tabulation shows the overall thicknesses of Penmetal movable partitions with various types of panels.

Type of Panel	Partition Thickness
Steel with insulation board	3"
⅛" hardwood	2¾"
⅛" hardwood with insulation board	3¼"
¼" plywood	3"
¼" plywood with insulation board	3½"
½" wallboard	3½"
⅝" wallboard	3¾"

HIGHLY EFFICIENT SOUND CONTROL

An important consideration in selecting movable partitions is their effectiveness as a barrier to the transmission of sound. Many people find difficulty in performing their best work when surrounded by distracting noises.

Penmetal movable interiors are designed to reduce to a minimum the transmission of sound from the area on one side of the partition to the area on the other side. How efficient they are has now been demonstrated in a test conducted by a recognized, independent testing laboratory.

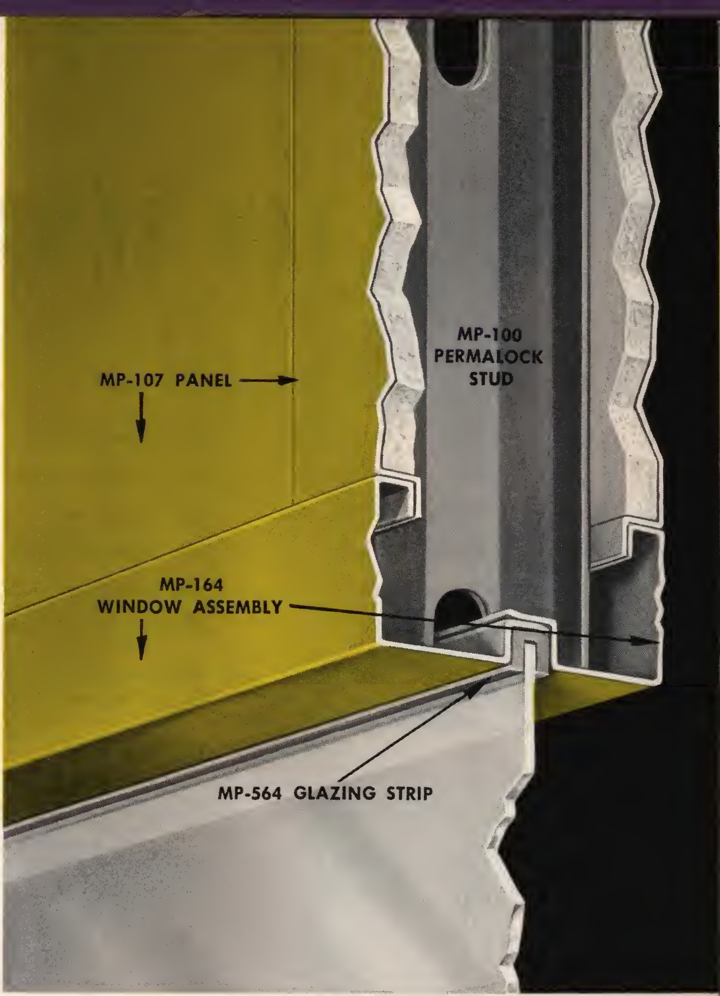
In this test, *an outstanding average sound-transmission-loss rating of 43 decibels was secured.* The results of the test also show exceptionally high decibel reductions at the critical sound-frequency ranges. The sound-transmission loss averaged 44.5 decibels at 350, 500, 700 and 1000 cycles per second.

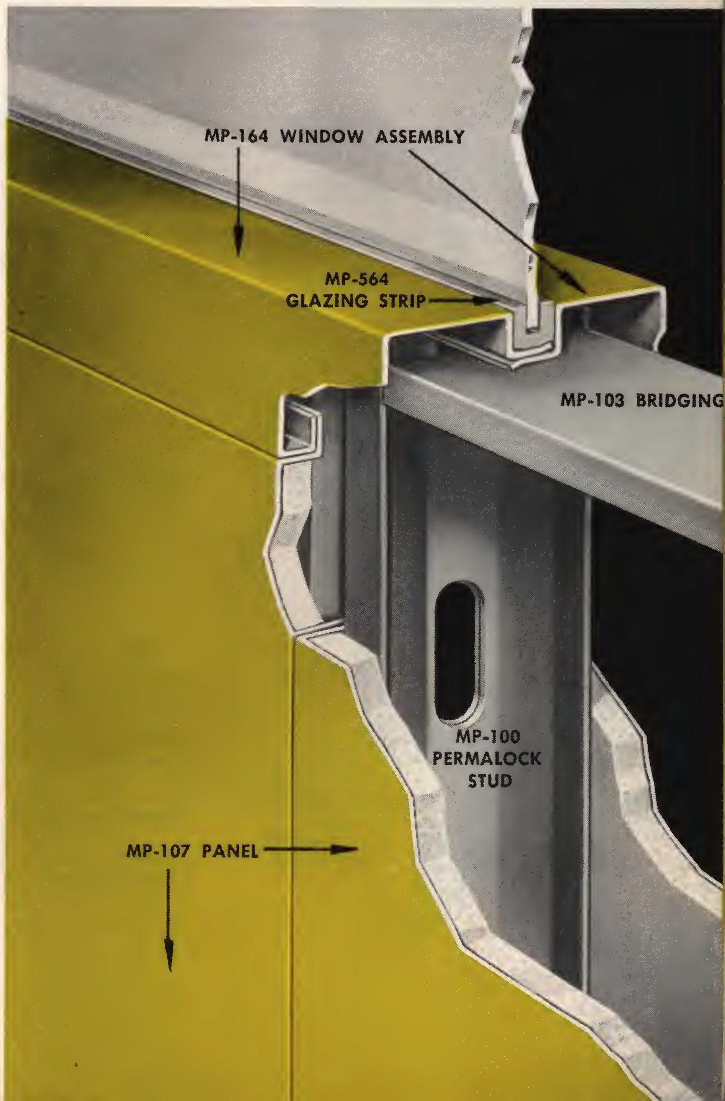
A standard, 3"-thick, floor-to-ceiling Penmetal partition, without doors or windows, was tested. There was no packing between the studs; the only insulation was the standard panel backing.

In considering these ratings, it should be understood that the sound resistance of any partition may vary in adequacy with its location. What a person hears through a partition is affected by the general masking noise level, the amount of sound absorption in the rooms and, of course, openings for doors, windows, ductwork, etc. It should also be remembered that equally good ratings cannot be expected from glazed-railing and cornice-high partitions.

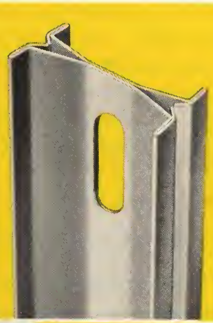
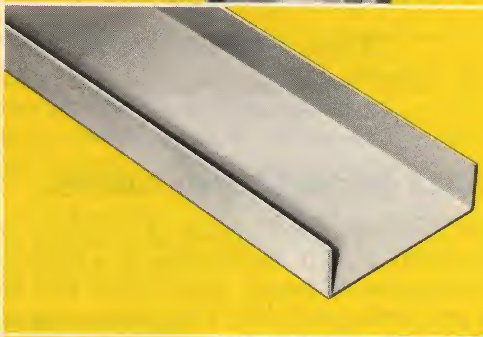
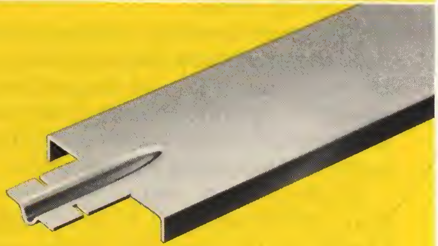
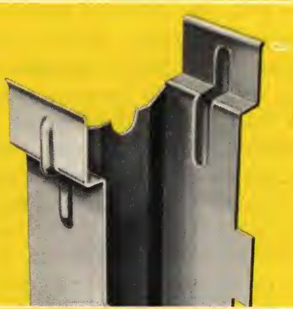
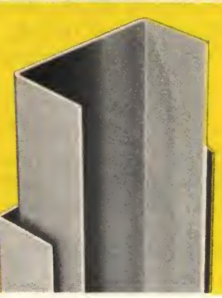
UPPER ILLUSTRATION: Cut-away view of top section of 8' or 9' steel-and-glass partition.

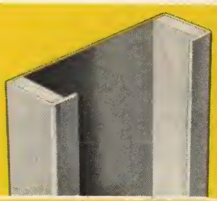
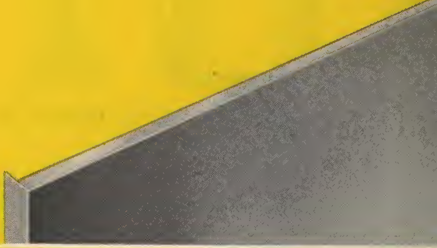
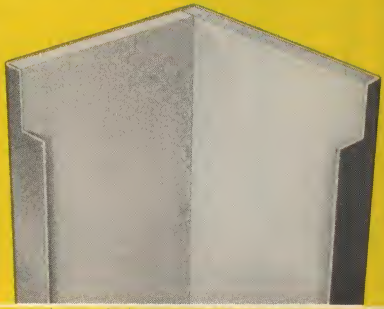
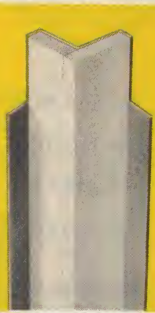
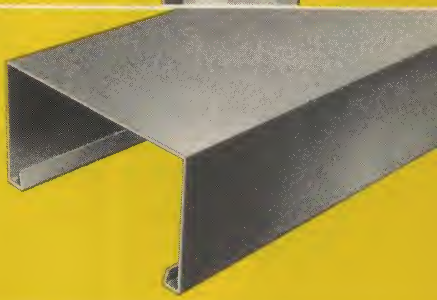
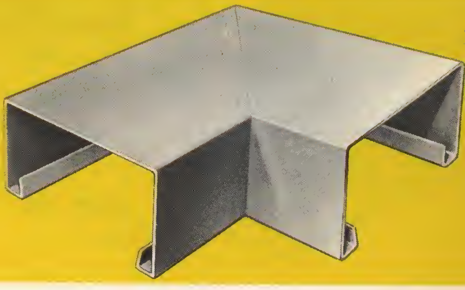
LOWER ILLUSTRATION: Cut-away view of bottom section of steel-and-glass partition.

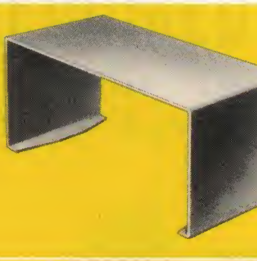
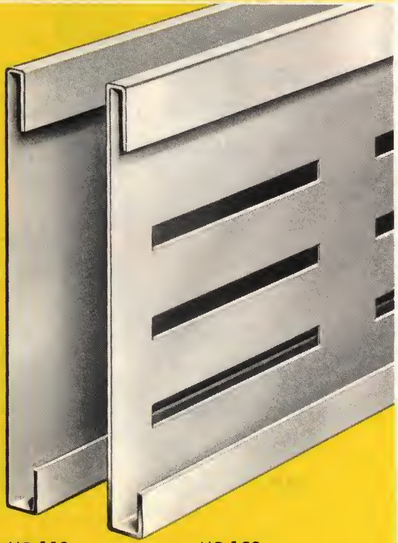
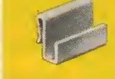
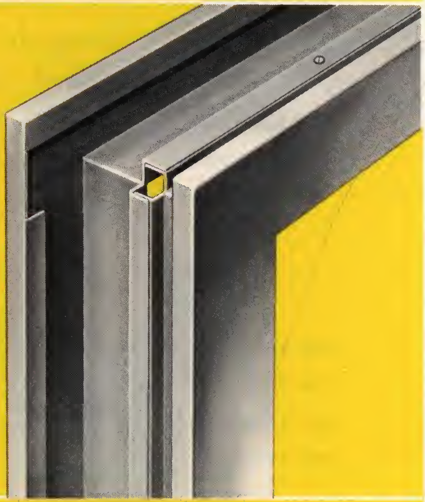
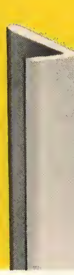




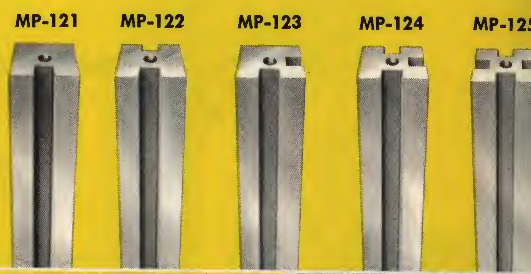
ONLY A FEW BASIC PARTS REQUIRED

Part No.	Code	Description	Illustration
MP-100G084	PEACH 84	2½" Permalock Stud, 7'0" Partition	
MP-100G096	PEACH 96	2½" Permalock Stud, 8'1" Partition	
MP-100G108	PEACH 108	2½" Permalock Stud, 9'1½" Partition	
MP-100G120	PEACH 120	2½" Permalock Stud, 10'2⅝" Partition	
MP-100G044 11/16	PEACH 44	2½" Permalock Stud, Below Railings	
MP-100G043 11/16	PEACH 43	2½" Permalock Stud, Below Standard Windows	
MP-100G051 13/16	PEACH 51	2½" Permalock Stud, Below File-height Windows	
MP-101G120	PEARL 120	2½" Permalock Track	
MP-102R120	PENSION	2½" Structural Track 16 Gage	
MP-103G024	PECAN 24	2½" Bridging, 24" Stud Spacing	
MP-103G048	PECAN 48	2½" Bridging, 48" Stud Spacing	
MP-103G003½	PECAN 3½	2½" Bridging, adjacent to door	
MP-103G006½	PECAN 6½	2½" Bridging, adjacent to door	
MP-146	PORT	2½" Bridging, narrow, 24"	
MP-104G250	PEONY 250	Stud Adjuster and Base Clip, ¼" Thick Panels	
MP-105A125	PEPPER 125	Vertical End Panels, ⅛" Thick Panels, Specify height	
MP-105A250	PEPPER 250	Vertical End Panels, ¼" Thick Panels, Specify height	
MP-105A500	PEPPER 500	Vertical End Panels, ½" Thick Wallboard, Specify height	
MP-105A625	PEPPER 625	Vertical End Panels, ⅝" Thick Wallboard, Specify height	

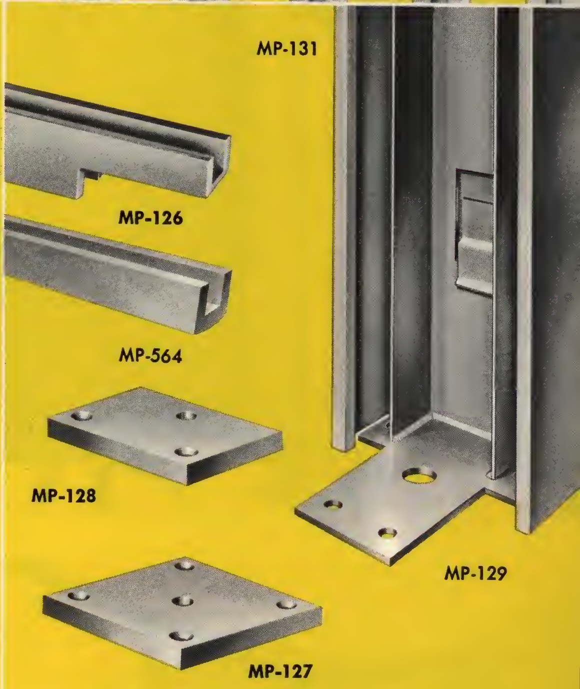
MP-106A250	PERFUME	Vertical End Windows, ¼" Thick Panels, Specify height	
MP-107A084	PETAL 84	24" Panels, 7'0" Partition	
MP-107A096	PETAL 96	24" Panels, 8'1" Partition	
MP-107A108	PETAL 108	24" Panels, 9'1½" Partition	
MP-107A120	PETAL 120	24" Panels, 10'2⅝" Partition	
MP-107A044⅞	PETAL 44	24" Panels	
MP-107A053	PETAL 53	24" Panels, Below File-height Windows	
MP-108A084	PEWEE 84	Outside Corner Panel, 7'0" Partition	
MP-108A096	PEWEE 96	Outside Corner Panel, 8'1" Partition	
MP-108A108	PEWEE 108	Outside Corner Panel, 9'1½" Partition	
MP-108A120	PEWEE 120	Outside Corner Panel, 10'2⅝" Partition	
MP-108A043½	PEWEE 43½	Outside Corner Panel, Below Windows and Railings	
MP-109A084	PHEASANT 84	Inside Corner Panel, 7'0" Partition	
MP-109A096	PHEASANT 96	Inside Corner Panel, 8'1" Partition	
MP-109A108	PHEASANT 108	Inside Corner Panel, 9'1½" Partition	
MP-109A120	PHEASANT 120	Inside Corner Panel, 10'2⅝" Partition	
MP-109A043½	PHEASANT 43½	Inside Corner Panel, Below Windows and Railings	
MP-110A125	PHLOX 125	Cornice, 120" Long, ⅛" Thick Panels	
MP-110A250	PHLOX 250	Cornice, 120" Long, ¼" Thick Panels	
MP-110A500	PHLOX 500	Cornice, 120" Long, ½" Thick Wallboard	
MP-110A625	PHLOX 625	Cornice, 120" Long, ⅝" Thick Wallboard	
MP-111A125	PICNIC 125	Corner Cornice Assembly, ⅛" Thick Panels	
MP-111A250	PICNIC 250	Corner Cornice Assembly, ¼" Thick Panels	
MP-111A500	PICNIC 500	Corner Cornice Assembly, ½" Thick Wallboard	
MP-111A625	PICNIC 625	Corner Cornice Assembly, ⅝" Thick Wallboard	

MP-112A125	PICTURE 125	Cornice Splice, ⅛" Thick Panels	
MP-112A250	PICTURE 250	Cornice Splice, ¼" Thick Panels	
MP-112A500	PICTURE 500	Cornice Splice, ½" Thick Panels	
MP-112A625	PICTURE 625	Cornice Splice, ⅝" Thick Panels	
MP-113A250	PIGEON	Base, 120" Long	 **MP-113** **MP-159**
MP-159	PIGEON SL	Base, 120" Long (Slotted), Specify thickness of panels	
MP-114G500	PIKE 500	Base Extender Clip, ½" Thick Wallboard	 **MP-114**
MP-114G625	PIKE 625	Base Extender Clip, ⅝" Thick Wallboard	
MP-115G	PINE	Base Mounting Clip	**MP-115**
MP-116A250	PISTOL	Window Assembly, 24" x 30½", 7'0" Partitions	
MP-117A250	PITCH	Window Assembly, 48" x 30½", 7'0" Partitions	
MP-118A250	PLATE	Window Assembly, 24" x 38⅝", 7'0" Partitions	
MP-119A250	PLUM	Window Assembly, 48" x 38⅝", 7'0" Partitions	
MP-163A250	PET	Window Assembly, 24" x 30½", 8'1", 9'1½" and 10'2⅝" Partitions	
MP-164A250	PAD	Window Assembly, 48" x 30½", 8'1", 9'1½" and 10'2⅝" Partitions	
MP-165A250	POKE	Window Assembly, 24" x 38⅝", 8'1", 9'1½" and 10'2⅝" Partitions	
MP-166A250	PUNT	Window Assembly, 48" x 38⅝", 8'1", 9'1½" and 10'2⅝" Partitions	
MP-167A250	PLAN	Window Assembly, 24" x 38⅝", for Second-tier Windows	
MP-168A250	PLOT	Window Assembly, 48" x 38⅝", for Second-tier Windows	
MP-120G084	POLE 84	KWIK-KLIP Batten Strip, 7'0" Partition	**MP-120** **MP-145** 
MP-120G096	POLE 96	KWIK-KLIP Batten Strip, 8'1" Partition	
MP-120G108	POLE 108	KWIK-KLIP Batten Strip, 9'1½" Partition	
MP-120G120	POLE 120	KWIK-KLIP Batten Strip, 10'2⅝" Partition	
MP-120G043½	POLE 43½	KWIK-KLIP Batten Strip, Below Windows and Railings	
MP-145X120	PONY 120	Aluminum Batten Strip, 10'0", Clear Anodized	

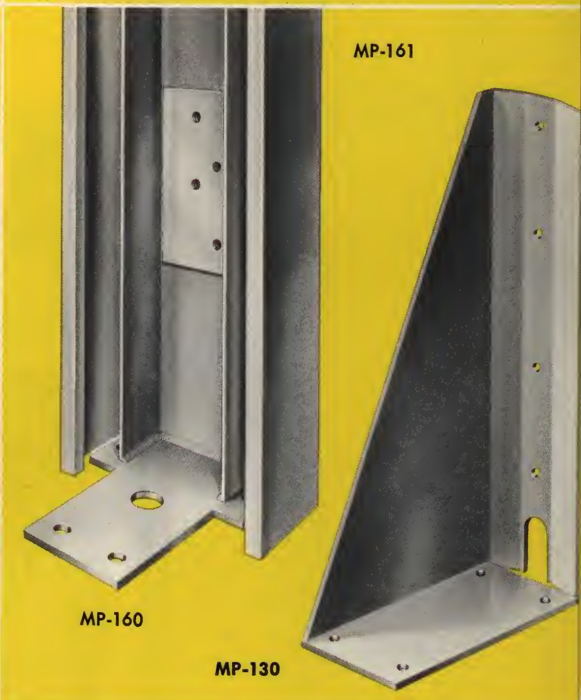
MP-121X024	POPPY	Glazing End Post
MP-122X024	PRAIRIE	Glazing Intermediate Post
MP-123X024	PRETZEL	Glazing L-Corner Post
MP-124X024	PRINCE	Glazing Tee Post
MP-125X024	PUMA	Glazing Cross Post



MP-126X048	PUPPET	Glass Retainer
MP-560	POACHER	Glazing Strip, for ⅛″ Glass (Included with Window Assembly)
MP-564	POACHING	Glazing Strip, for 7⁄32″ Glass (Included with Window Assembly)
MP-127X	PURSE	Glazing-post Base
MP-128X	PAIL	Glazing-post Dead-end Base
MP-129R250	PARKA 250P	Railing Post, for Railing Opening
MP-131R250	PARKA 250F	Railing Post Facing, for Railing Opening



MP-130	PANDA	Stud-support Bracket
MP-160R250	PALACE 250P	Gate Post, for Mounting Gate
MP-161R250	PALACE 250F	Gate Post Facing, for Mounting Gate



RAPID ERECTION

Penmetal movable interior partitions are fast and easy to erect or dismantle. Work can be done without disturbing normal office routine in adjacent areas, and there is no mess to be cleaned up after the work is completed.

When a partition is taken down, all parts can be salvaged for re-use in another location. In short, there is no loss of materials when a partition is moved.

After a partition is erected, doors and windows can be interchanged or moved to new positions. Changes are easy to make, and new parts are not required.

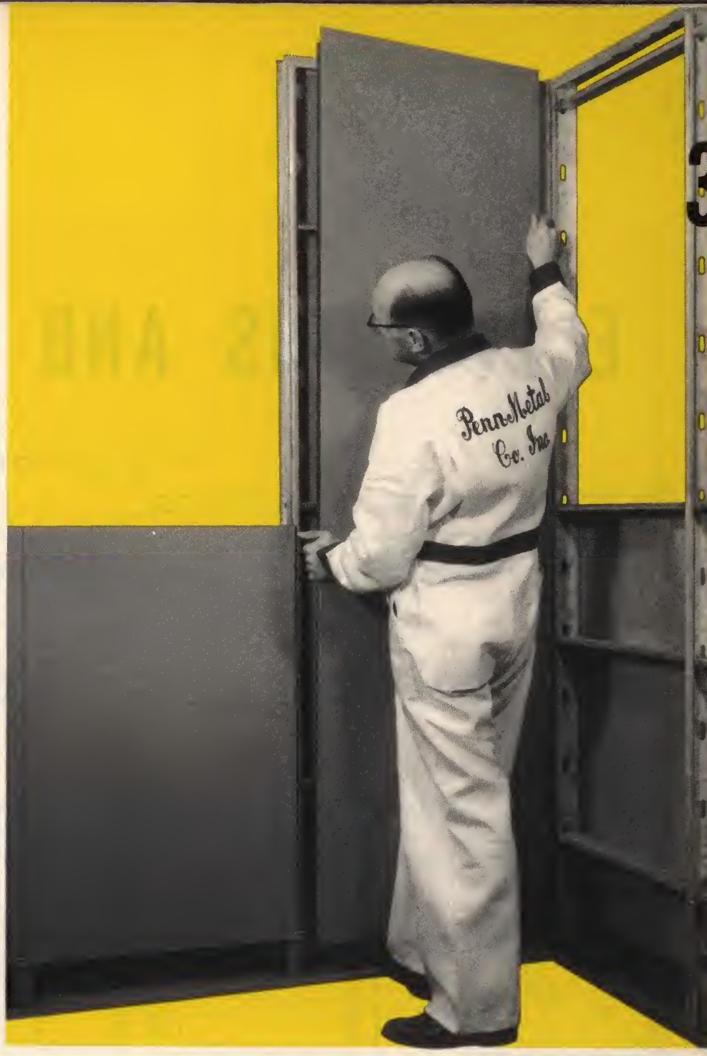
The illustrations on this and the opposite page show how easy it is to install one of these handsome interiors. Note how few parts — all of which are standard—are required. The partition can be erected and demounted with ordinary tools.

1

Here, a vertical end panel, set in floor and ceiling track, is attached to the existing wall. The vertical end panel will "finish off" the completed partition at the end. The floor and ceiling track are identical rolled channels. The Permalock studs are positioned 24" on centers.

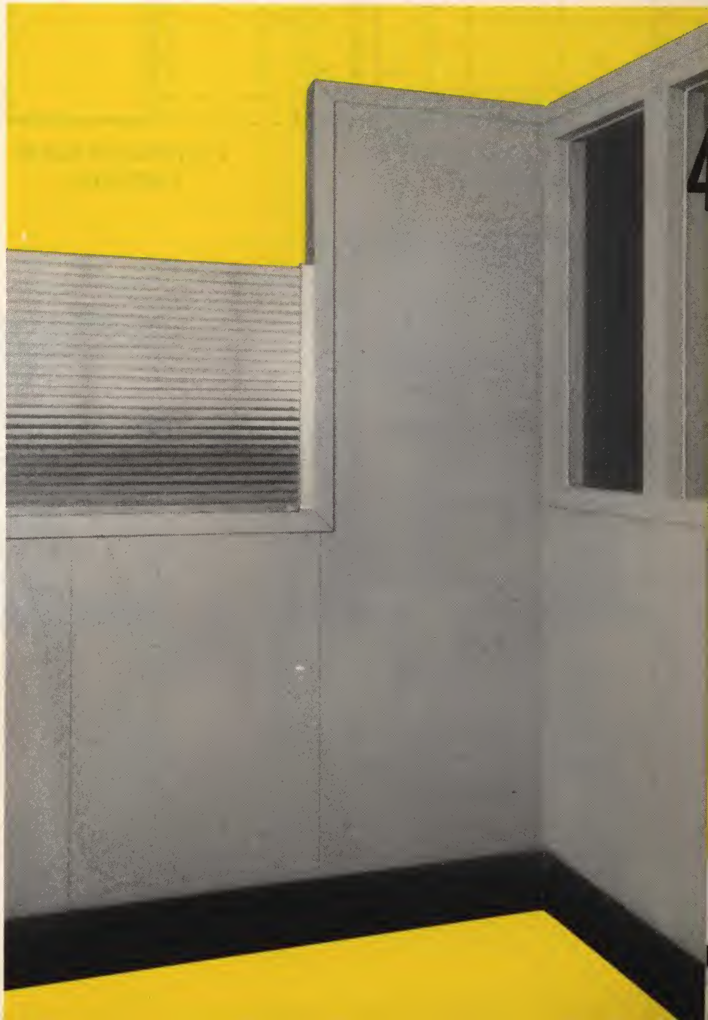
2

The next step is the installation of bridging. These members are installed by inserting their ends into the stud openings and then rotating so that their grooves engage the sides of the opening. Bridging is furnished in two lengths, for stud spacings of 24" and 48". (The longer length is used over doors and windows.) They provide the necessary stability for the partition, and they also assure accurate spacing for the studs, which is necessary for the application of the panels. The inside corner panel, which is shown in place, provides an unbroken interior corner.



3

In this photograph, an enameled-steel panel is about to be snapped into the groove in the Permalock stud. The bottom edge of the panel rests on the stud adjuster; the top panel edge will be covered later by the cornice. In addition to supporting the panel, the stud adjuster acts as a leveling bracket for the stud, to assure horizontal partition lines regardless of irregularities in the floor. The base is also attached to the stud adjusters.

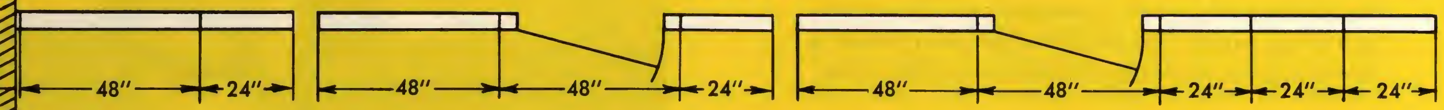


4

The finished partition, with base, cornice, and window framing attached, gives an impression of permanence and, yet, it is as easy to take down as it was to put up. Note that the joints between panels are hardly noticeable. This simple partition points up the versatility of Penmetal interiors. The section at the right is a steel-and-glass, 7'0" cornice-high partition. At the left, is a standard glazed railing. All parts, excluding the glass, are furnished by Penn Metal Company, Inc. This assures uniform quality throughout, as well as certainty that all parts will fit together for rapid, trouble-free erection.

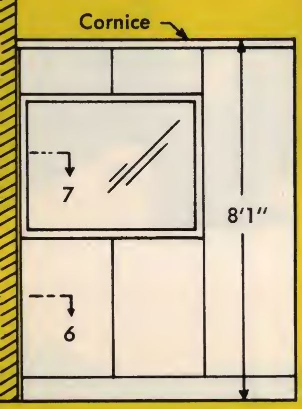
ELEVATIONS AND SECTIONS

TYPICAL PLAN

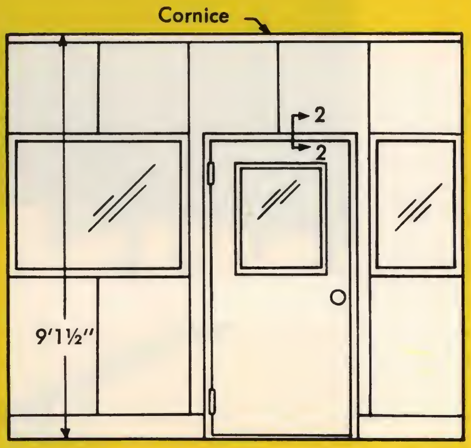


Ceiling Line

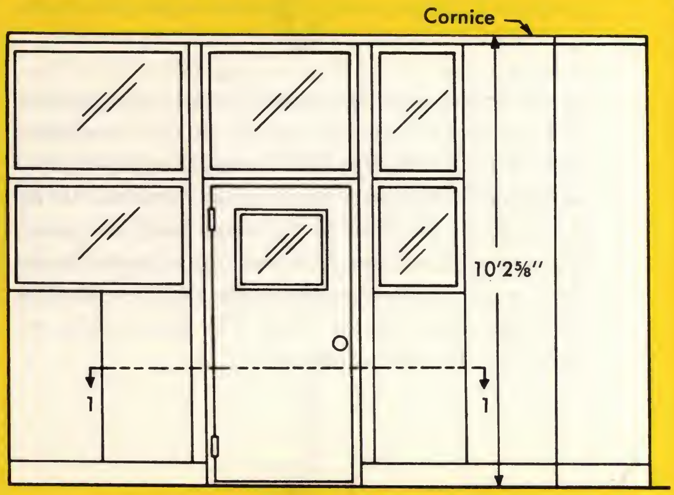
A FEW STANDARD PARTITIONS—FOR OTHERS, SEE PAGE 16



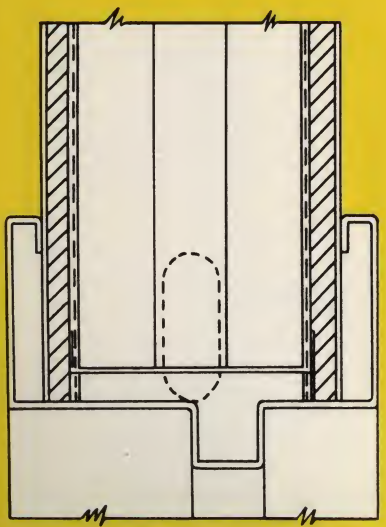
8' STEEL-AND-GLASS PARTITION



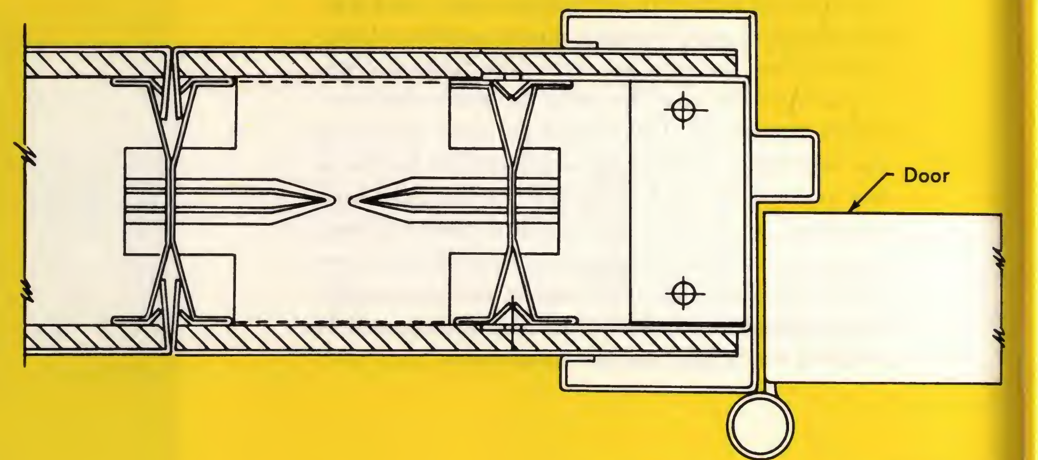
9' STEEL-AND-GLASS PARTITION



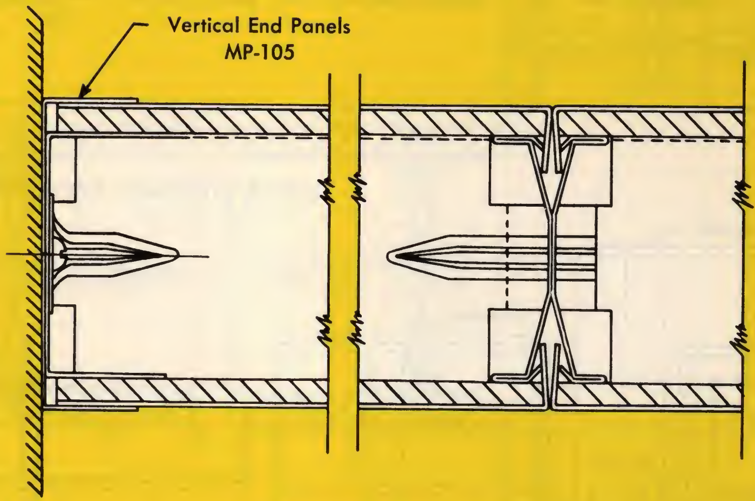
10' TWO-TIER GLASS PARTITION



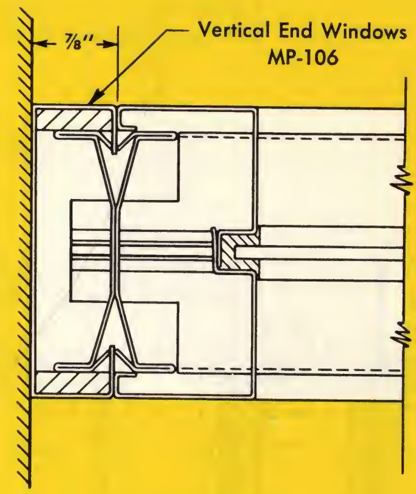
SECTION 2-2 THROUGH DOOR HEADER



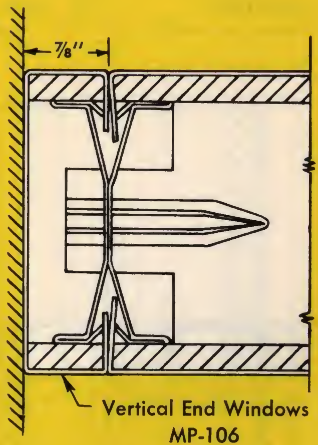
SECTION 1-1 THROUGH DOOR



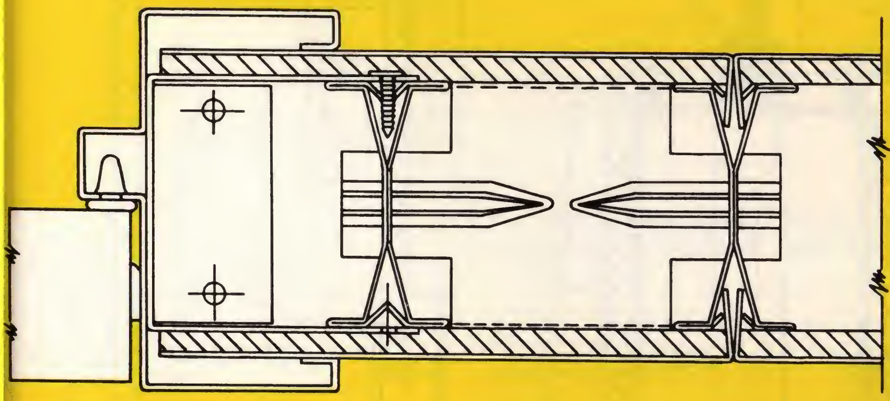
VARIABLE-WIDTH PANEL ASSEMBLY



SECTION 7-7

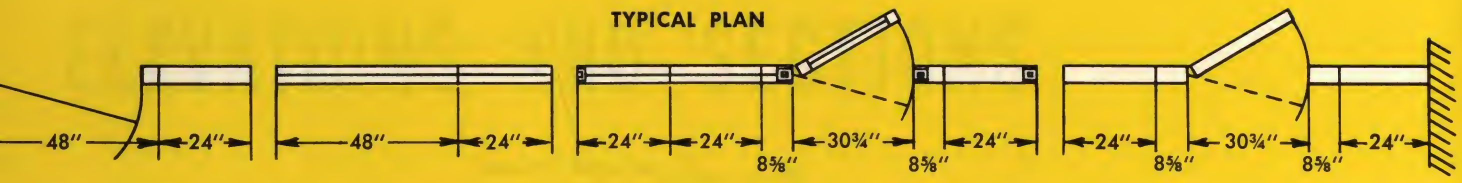


SECTION 6-6

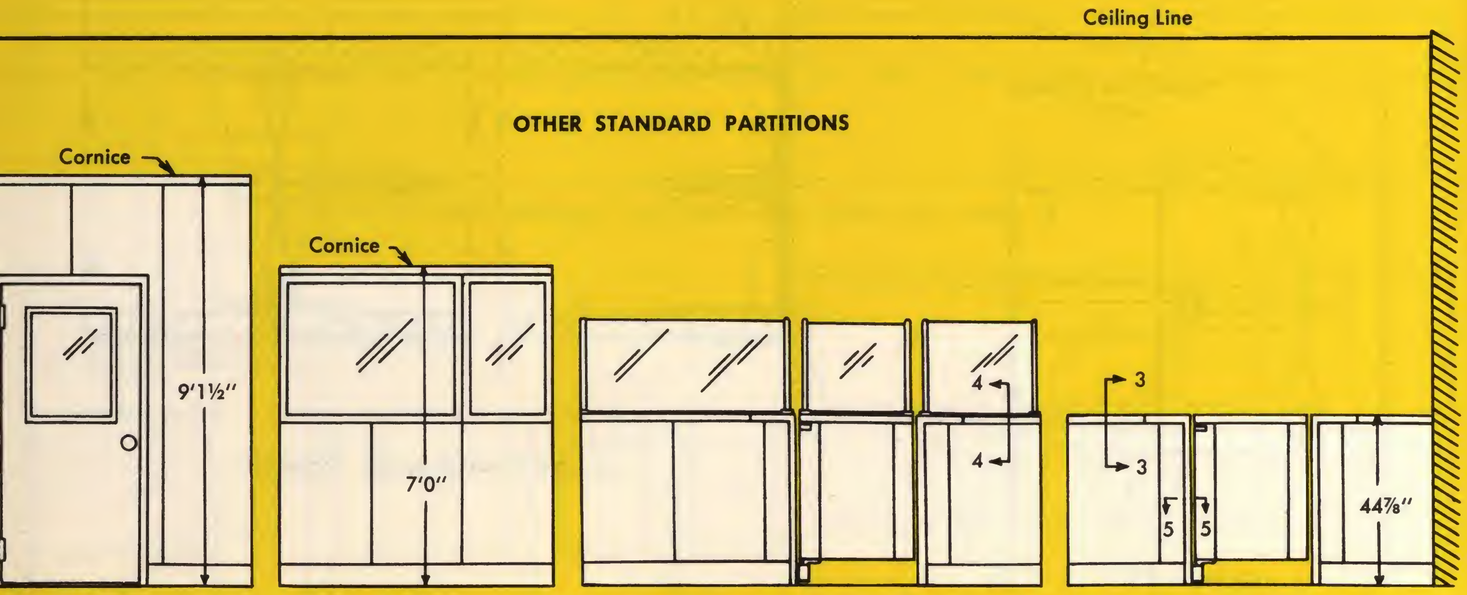


FRAME AND ADJACENT PANELS

TYPICAL PLAN



OTHER STANDARD PARTITIONS

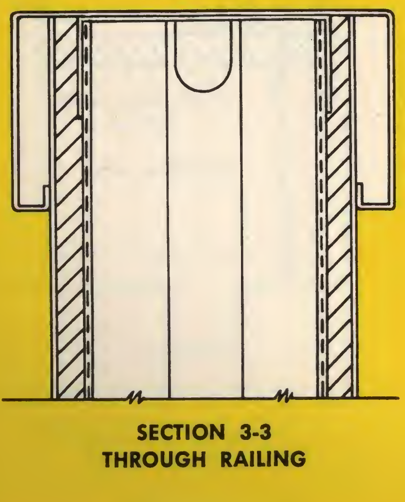


STEEL PARTITION

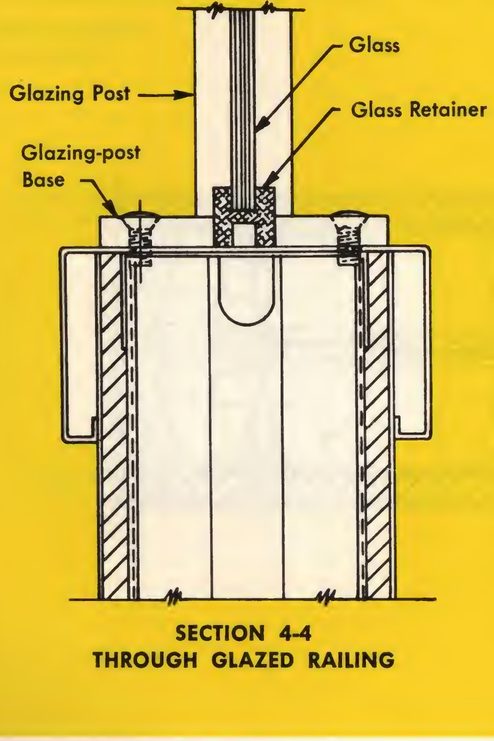
7' STEEL-AND-GLASS PARTITION

GLAZED RAILING WITH GLAZED GATE

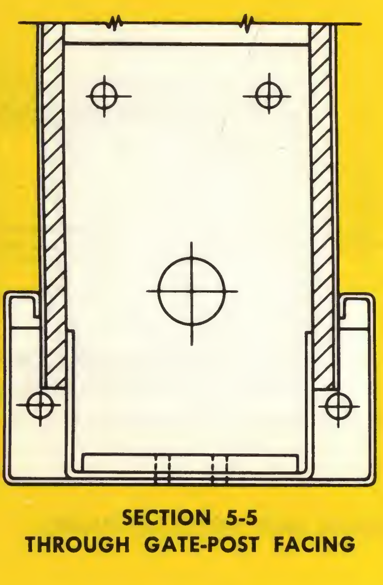
RAILING WITH GATE



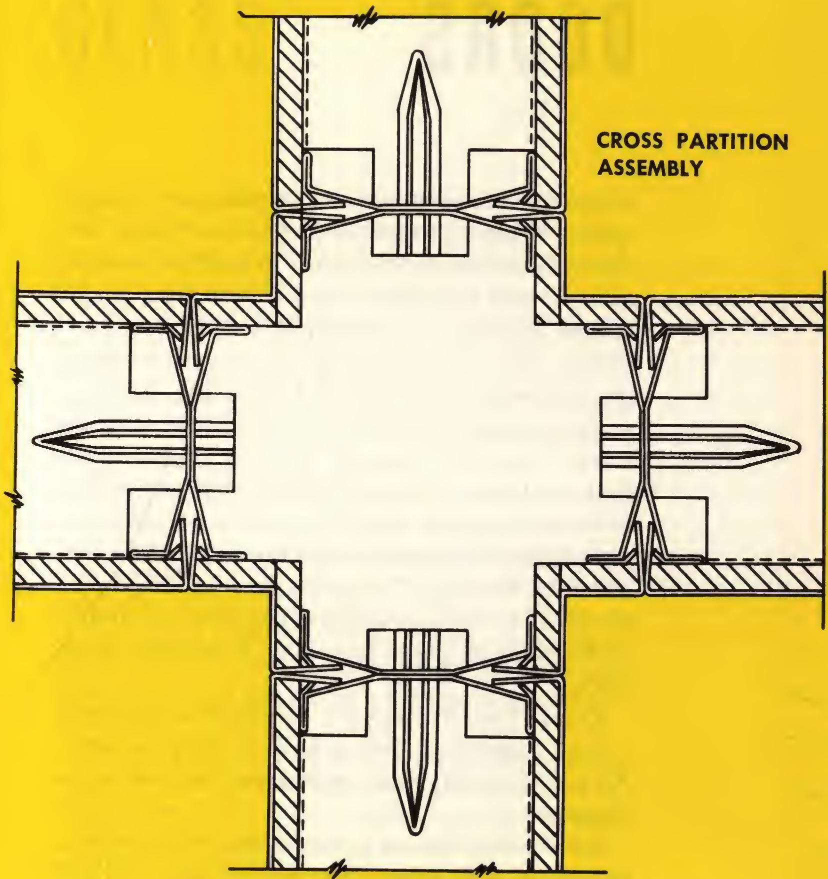
SECTION 3-3 THROUGH RAILING



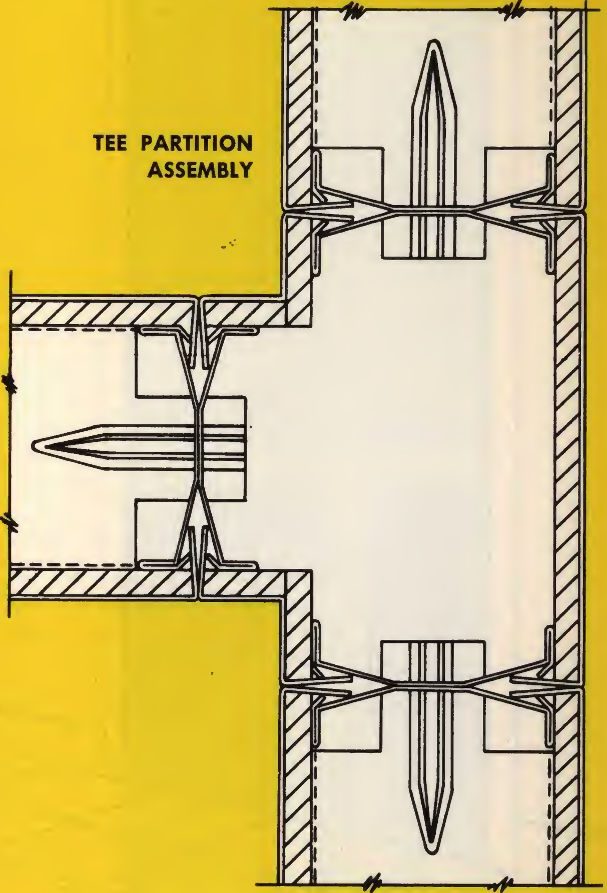
SECTION 4-4 THROUGH GLAZED RAILING



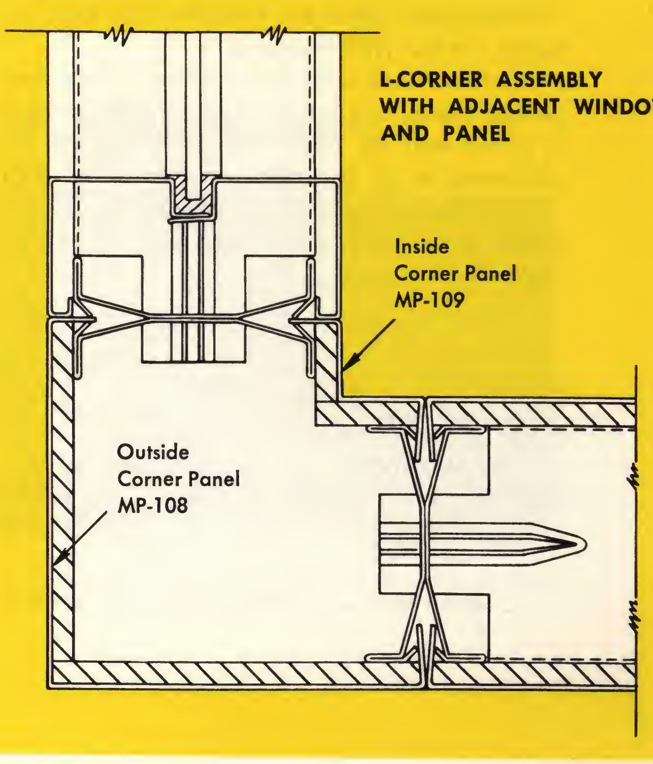
SECTION 5-5 THROUGH GATE-POST FACING



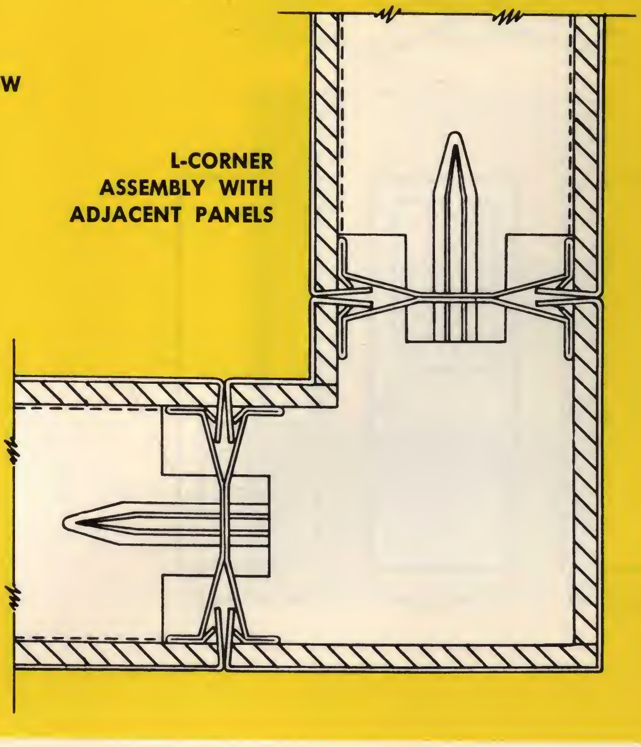
CROSS PARTITION ASSEMBLY



TEE PARTITION ASSEMBLY

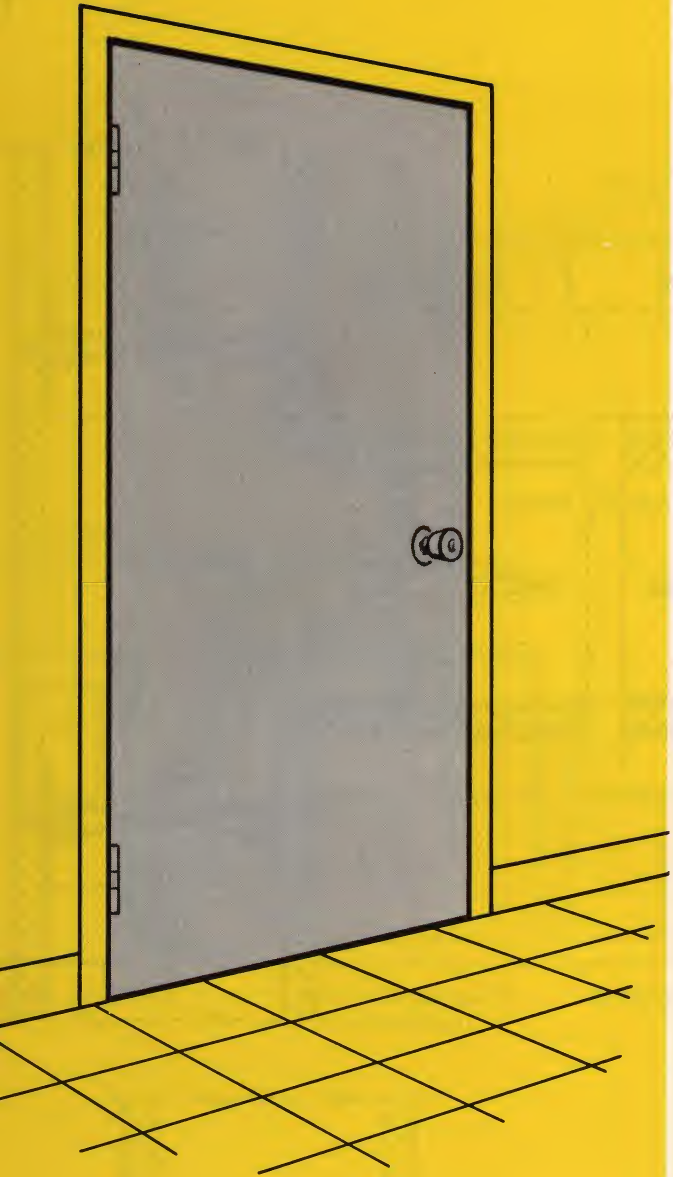


L-CORNER ASSEMBLY WITH ADJACENT WINDOW AND PANEL



L-CORNER ASSEMBLY WITH ADJACENT PANELS

DOORS



Doors for Penmetal movable interiors are of high-quality design, primed to prevent corrosion, and finished in baked-enamel colors to match or contrast with the steel paneling of the partition. They are of hollow, flush-panel construction, 1¾″ thick.

Two steel sheets, forming the external surfaces, are spot-welded to internal reinforcing channels, spaced not more than 8″ on centers. The channels extend vertically through the full door height. Filler materials are placed between the steel sheets to prevent metallic ring and to act as an insulator.

Standard equipment includes one pair of hinges, which are installed 7″ from the floor and the top of the door. A choice of lock sets and other hardware, as described on pages 20 and 21, is available from stock.

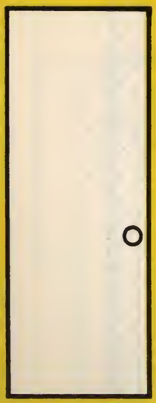
Three types of doors are furnished as standard: 1. flush paneled, 2. flush glazed, 3. flush louvered. All are of equally fine construction, built to last a lifetime.

Flush-paneled doors present a smooth, unbroken surface on both sides. There are no joints, projections or indentations of any kind.

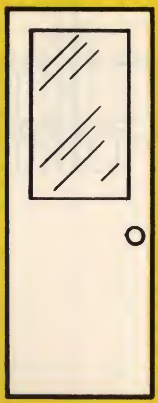
Flush-glazed doors are available, less glass. Sill height is 44⅞″ from the floor.

Flush-louvered doors are similar to the flush-paneled doors, except for a stationary louver which is placed near the floor. The louver permits free circulation of air. It is sight proof from any angle.

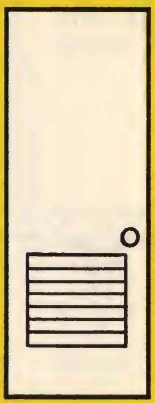
In addition to the three standard designs illustrated, special doors can be supplied to meet individual requirements.



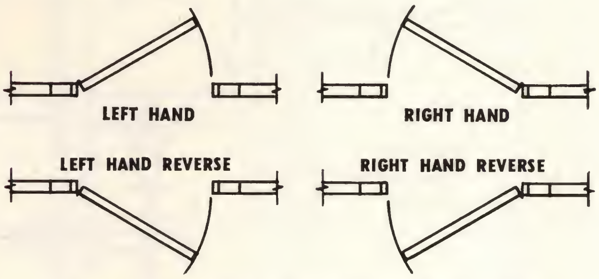
Flush paneled



Flush glazed



Flush louvered



Standard door swings (facing door from key side).

GLASS*

Penmetal movable partitions can be glazed from a wide selection of clear or obscure glass. Your Penmetal distributor will assist you in the selection of the type best suited to your requirements.

Clear glass is available in 3/16" crystal sheet, ⅛" D.S.A., or ¼" polished plate. Strongest of the three is ¼" polished plate, which is also distortion free. However, the other two types are widely used in movable partitions, and are satisfactory for many installations.

Obscure glass can be supplied in a wide variety of interesting patterns. Selection depends upon the artistic effect required and the degree of light transmission needed. The three patterns illustrated are only a few of the many types available.

For glazed railings, ¼" thick glass, either clear or obscure, is recommended. Single strength and D.S.B. glass are not suitable for use in glazed-rail partitions.

The glass is set in a special Penmetal vinyl glazing strip. These strips simplify installation and removal of the glass. Putty is not required and is not used.

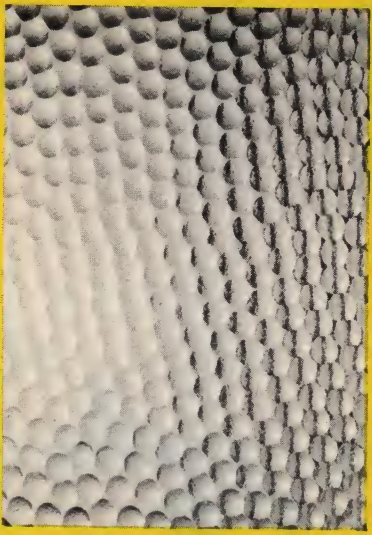
Because the glazing strip is resilient and nonmetallic, it eliminates rattling of the glass and greatly reduces the possibility of breakage due to excessive jarring. The glazing strip is held securely in position by the window assembly.

LIGHT TRANSMISSION TABLE

(Clean Glass)

Type	Thickness	Approximate Transmission Value
Polished plate	¼"	88%
39 oz. crystal	3/16"	89%
D.S.A.	⅛"	90%
Obscure—usual patterns	7/32"	74% to 86%

**To be secured from local sources; not supplied by Penn Metal Company, Inc.*

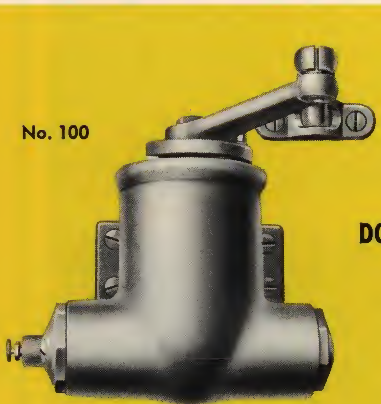


No. 616

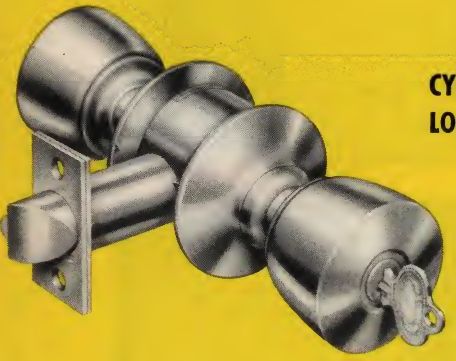
No. 626

DOOR PUSH AND PULL PLATES

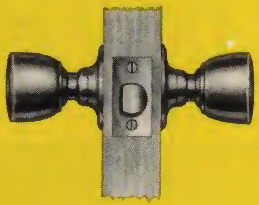
No. 100



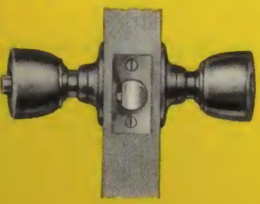
DOOR CLOSERS



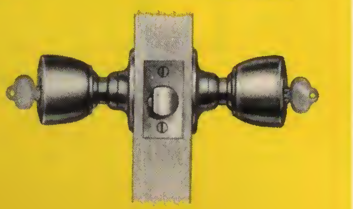
CYLINDRICAL LOCK SETS



No. 410



No. 422



No. 446½

HARDWARE

Standard hardware, furnished with Penmetal movable partitions, is the heavy-duty type, designed for lasting service. With the exception of the door hinges, all items are either wrought or extruded bronze with a lustrous, satin finish. Hinges are polished and plated steel.

All items listed on this and the opposite page are carried in stock for immediate delivery. Nonstocked, special-order hardware can be supplied, but will cause a delay in delivery. When required, such items should be ordered well in advance.

DOOR PUSH AND PULL PLATES

These plates are furnished for installation on swinging doors to assure easy traffic flow. Both plates are 14" x 3½" in size. The grip on No. 626 measures 5¼" from center to center, and projects 2⅜".

DOOR CLOSERS

The No. 100 door closer is a rugged, dependable device designed to close doors surely and quietly. Opens to 100 degrees. It is reversible for right- or left-hand doors, without any rearrangement of parts.

CYLINDRICAL LOCK SETS

Three standard styles of cylindrical lock sets are available for corridor, closet, communicating and inner-office doors. These lock sets are interchangeable; all meet U.S. Government Specifications Type 161.

No. 410, *for passage and closet doors.* Latch bolt by knob either side. Each knob always free.

No. 422, *for communicating or inner offices.* Latch bolt by knob either side. Push button locks outside knob; inside knob always free. Turning inside knob or closing door releases push button.

No. 446½, *for corridor doors.* Latch bolt by knob either side. Inside knob always free; outside knob locked by key in inside knob. Key in outside knob retracts latch bolt when outside knob is locked.

MORTISE LOCK SETS

These lock sets are supplied in three different styles, with either plain or antifriction latch bolts. (The letter "A" before the number designates antifriction type.) They are available with an adjustable bevel from flat to standard ⅛".

No. 2038 and A2038, *for inner office doors.* Latch bolt by knob either side except when outside knob is locked by stop in front; by key outside at all times.

No. 2056 and A2056, *for corridor offices.* Latch bolt by knob either side except when outside knob is locked by stop in front; by key outside at all times. Auxiliary latch deadlocks latch bolt and stop, preventing manipulation when door is closed.

No. 2059 and A2059, *for corridor closet doors.* Latch bolt knob inside and by key outside. Outside knob rigid at all times. Auxiliary latch deadlocks latch bolt, preventing manipulation when door is closed.

KICK PLATES

Stocked for doors that are subject to heavy traffic, these plates may be attached to one or both sides. They are available in 16-gage brushed aluminum or brushed brass or in Formica in various colors, for 2'6" or 3'0" doors. Height is 6".

BALL-BEARING HINGES

Hinges have button tip and plug. They are furnished with two ball bearings for noiseless, antifriction operation. Available in size 4½" x 4½".

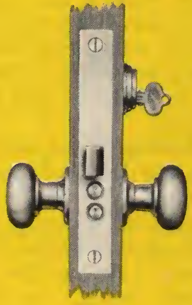
AUTOMATIC DOOR HOLDERS

No. 220 door holders are for application to either wall or base. Spring tension is adjustable to suit different widths and weights of doors so that proper holding tension can be obtained without placing undue strain on the door.

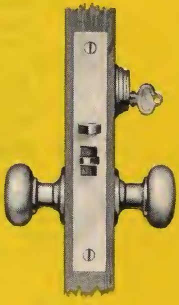
DOOR STOPS

Two styles of door stops are available. No. 165 has a base 2¼" in diameter, and projects 3⅝". The diameter of the No. 209 is 1⅞", and it projects 1⅜".

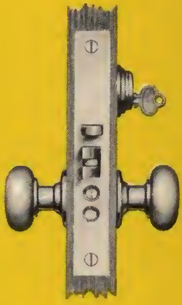
MORTISE LOCK SETS



No. 2038 and
No. A2038



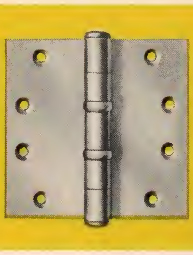
No. 2056 and
No. A2056



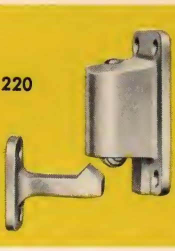
No. 2059 and
No. A2059

KICK PLATES

BALL-BEARING HINGES

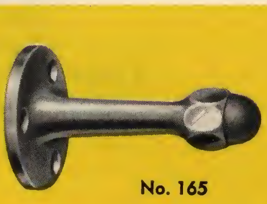


AUTOMATIC DOOR HOLDERS

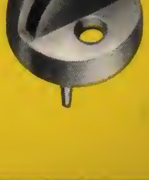


No. 220

DOOR STOPS



No. 165



No. 209

SPECIFICATIONS Penmetal Movable Interiors with Steel Panels

I CEILING-HIGH AND/OR CORNICE-HIGH PARTITIONS

A. General — Furnish and erect complete, Penmetal movable steel interiors, flush type, full 3" thick, ceiling high and/or cornice high, as manufactured by Penn Metal Company, with doors, glass, and approved standard hardware.

B. Shop drawings, if requested, shall show plan layout and details of construction.

C. Materials

1. Concealed structural and framing members shall consist of Penmetal Permalock studs in 2½" widths, with 1-3/16" minimum facing, set in standard-length Permalock channels at floor and ceiling or cornice rail (if cornice-high installation), and braced with Penmetal bridging members. Studs shall be designed to receive attaching units of the panels. They shall also be punched for the passage of concealed wiring, so that electrical outlets can be placed at random on the surface of the partition.
2. Steel-panel units shall consist of 20-gage finished-leveled sheet steel with ¼" sound-deadening insulation board bonded to the panel sheet.

D. Construction

1. Partitions shall be so designed and constructed as to be readily erected and quickly demounted, wholly or partially, and relocated without damage to partition or adjacent walls. Parts shall be arranged so that 2-, 3-, or 4-way extensions may be joined thereto, and panels may be removed without disturbing the rest of the partition.
2. Floor and ceiling channels shall be anchored in place. Studs shall be set 24" on centers in floor and ceiling channels or cornice rail, and Penmetal steel bridging shall be inserted between the studs at the following heights:

Height of Partition	Number and Spacing of Bridging Members
7 ft. or 8 ft.	3 (at third points)
9 ft. or 10 ft.	4 (at quarter points)

Note: 2 pieces of bridging are recommended behind short panels under windows and railings.

Steel panels shall then be snapped into the studs, and trim shall be applied in accordance with standard methods of erection. All connections to floors, walls and ceilings, and between structural units, shall be concealed. Steel base shall be applied by Penmetal's attachment system.

II STANDARD RAILING-HIGH PARTITIONS

Standard railings, where shown on the drawings, shall be movable, full-flush, 44⅞" high, with neat flush-cap molding. They shall be securely anchored to the floor, and shall be constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Where specified, they shall match partitions in color or finish.

III GLAZED-RAIL PARTITIONS

Where shown on the drawings, glazed-rail partitions shall be movable, full flush; securely anchored to the floor; and constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Steel panels shall be 44⅞" high, with 24"-high aluminum clear anodized glazing posts above to receive ¼" glass, as specified.

IV GATES

Gates, where called for on the drawings, shall be double acting, equipped with all necessary hardware.

V TREATMENT OF MATERIALS (RUST RESISTANCE)

All members shall be protected against rust by the Parkerizing method, or shall be galvanized. Structural-steel members, when required for reinforcement, shall be 40,000-psi, Penmetal structural-grade steel (ASTM Specification — Designation A-245), painted with an oven-dried coat of rust-resisting, red-oxide. Exposed surface panels and accessory units shall be finished in prescribed colors of baked enamel over a Parkerized surface, as required.

VI FINISHED SURFACES OTHER THAN STEEL PANELS

General specifications, as heretofore stated, also apply to framing and erection of finished surfaces other than steel panels, where applicable.

A. Unfinished wallboards shall be applied vertically in 24"-width increments, and shall be held in place by Kwik-Klip batten strip No. MP-120G. Where wallboard in standard 4' widths is used, application and finish, including tape and cement, shall be in accordance with the wallboard manufacturer's standard specifications. In lieu of regular nails, the nails and/or screws used shall be in accordance with the table in section I, paragraph D-2, on page 23.

B. Wood-grained wallboards and veneered plywoods shall be applied vertically in 24"-width increments, and shall be attached to the studs by Penmetal aluminum batten strip No. MP-145 or Penmetal angle backing attachment No. MP-144G.

VII WORKMANSHIP

The finished partition shall be plumb, neat in appearance, free from defects, and with horizontal lines leveled. Hardware shall be adjusted and left in proper working condition.

SPECIFICATIONS Penmetal Demountable Wallboard or Wood-panel Partitions

I CEILING-HIGH AND/OR CORNICE-HIGH PARTITIONS

A. **General** — Furnish and erect complete, Penmetal wallboard or wood-panel interior system with doors, glass, and approved standard hardware.

B. **Shop drawings,** if requested, shall show plan layout and details of construction.

C. **Materials**

1. Concealed structural and framing members shall consist of Penmetal Permalock studs in 2½" or 3⅝" widths as specified with 1-3/16" minimum facing, set in standard-length Permalock channels at floor and ceiling or cornice rail (if cornice-high installation), and braced with Penmetal bridging members. Studs shall be designed to receive attaching units for wallboard or wood panels, as required by the type of collateral material. They shall also be punched for the passage of concealed wiring, so that electrical outlets can be placed at random on the surface of the partition.

D. **Construction**

1. Partitions shall be so designed as to be readily erected and quickly demounted, wholly or partially, and relocated without damage to partition or adjacent walls.
2. Floor and ceiling channels shall be anchored in place. Studs shall be set 24" on centers in floor and ceiling channels or cornice rail, and Penmetal steel bridging shall be inserted between the studs as follows, for either 2½" or 3⅝" studs:

Height of Partition	Bridging
8 ft. to 10 ft.	1 row at center
10 ft. to 16 ft.	2 rows

Wallboard or wood panels shall be applied vertically in 24"-width increments, and shall be held in place by Penmetal batten strip No. MP-120G or MP-145, or by Penmetal angle panel attachment No. MP-144G, in accordance with Penmetal standard methods of erection. Where wallboard in standard 4′ widths is used, application and finish, including tape and cement, shall be in accordance with the wallboard manufacturer's standard specifications. In lieu of regular nails, the nails and/or screws used shall be as specified below.

All connections to floors, walls and ceilings, and between structural units, shall be concealed. Steel base shall be applied by Penmetal's attachment system. Where rubber or plastic base is to be used, application shall be in accordance with the manufacturer's recommendations.

	Screws*		Nails‡	
Panel Thickness	Length	Type of Washer†	Length	Type of Washer†
⅛"	⅞"	No. 2	—	—
⅜"	1"	No. 2	1"	No. 1
½"	1⅛"	No. 2	1⅛"	No. 1
⅝"	1¼"	No. 2	1¼"	No. 1

* Screws shall be flat-head, galvanized, S/M screws.
‡ Nails shall be Stronghold, 11-gage, flat-head, ratchet-type, coated.
† Washers shall be galvanized (for use with wallboard) and supplied through Penn Metal Company.

II STANDARD RAILING-HIGH PARTITIONS

Standard railings, where shown on the drawings, shall be movable, 44⅞" high, with neat flush-cap molding. They shall be securely anchored to the floor, and shall be constructed of the same high-quality materials, and to the same standards of workmanship, as the partition.

III GLAZED-RAIL PARTITIONS

Where shown on the drawings, glazed-rail partitions shall be movable; securely anchored to the floor; and constructed of the same high-quality materials, and to the same standards of workmanship, as the partition. Panels shall be 44⅞" high, with 24"-high glazing posts above to receive ¼" glass, as specified.

IV GATES

Gates, where called for on the drawings, shall be double acting, equipped with all necessary hardware.

V TREATMENT OF MATERIALS (RUST RESISTANCE)

All members shall be protected against rust by the Parkerizing method, or shall be galvanized or painted. Structural-steel members, when required for reinforcement, shall be 40,000-psi, Penmetal structural-grade steel (ASTM Specification — Designation A-245), painted with an oven-dried coat of rust-resisting, red-oxide.

VI WORKMANSHIP

The finished partition shall be plumb, neat in appearance, free from defects, and with horizontal lines leveled. Hardware shall be adjusted and left in proper working condition.

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a name to remember

PENN METAL COMPANY

INCORPORATED

Sales Office for Movable Partitions: Parkersburg, W. Va., AXminster 5-4521
General Sales Office: 40 Central Street, Boston 9, Mass., LAfayette 3-6344
Plant: Parkersburg, W. Va.
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